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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
		Application Number	10/736,741
		Filing Date	December 17, 2003
		First Named Inventor	ZIPPER, Eliav
		Group Art Unit	2681
		Examiner Name	Not yet known
		Attorney Docket Number	P-6114-US
Sheet	1	of	4

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
PZ	A	5,012,200		Meinzer	04-30-1991	
	B	5,862,460		Rich	01-19-1999	
	C	5,803,854		Abe et al.	05-11-1999	
	D	6,330,455		Ichihara	12-11-2001	
	E	5,302,914		Arntz et al.	04-12-1994	
	F	6,285,251		Dent et al.	09-04-2001	
	G	5,694,093		DaSilva et al.	12-02-1997	
	H	5,854,571		Pinckley et al.	12-29-1998	
	I	5,872,481		Sevic et al.	02-16-1999	
	J	6,133,788		Dent	10-17-2000	
	K	6,201,452		Dent et al.	03-13-2001	
	L	5,345,189		Homak et al.	09-06-1994	
	M	5,264,807		Okubo et al.	11-23-1993	
	N	5,909,643		Alhara	08-01-1999	
	O	5,928,702		Myers et al.	09-27-1999	
	P	5,758,269		Wu	05-26-1998	
	Q	5,788,727		Sigmon	07-28-1998	
	R	5,888,575		Long	03-23-1999	
	S	5,880,833		Leizerovich et al.	03-09-1999	
	T	5,739,723		Sigmon et al.	04-14-1998	

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Examiner Initials*	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6
		Office 3	Number 4	Kind Code 5 (if known)				
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Examiner Name		Not yet known			
Sheet	2	of	4	Attorney Docket Number	P-6114-US

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RZ	V	5,872,481		Sevic et al.	02-18-1999	
	W	5,681,434		Brozovich et al.	08-28-1997	
	X	5,420,541		Upton et al.	05-30-1995	
	Y	5,568,094		Bowen et al.	10-22-1998	
	Z	5,548,248		Tamamoto et al.	08-20-1998	
	AA	5,541,554		Stengel et al.	07-30-1998	
	AB	5,724,005		Chen et al.	03-03-1998	
	AC	4,439,744		Kumar et al.	03-27-1984	
	AD	5,821,351		Puri et al.	04-15-1997	
	AE	4,433,312		Kahn	02-21-1984	
	AF	5,974,041		Kornfeld et al.	10-28-1999	
	AG	3,777,275		Cox	12-04-1973	
	AH	6,587,511		Barak et al.	07-01-2003	
	AI	5,901,346		Stengel et al	05-04-1999	
	AJ	2003/0125065		Hasson et al.	07-03-2003	
	AK	09/579,528		Hasson, Jaime et al.	05-26-2000 (filing date)	
BZ	AL	10/131,750		Barak et al.	04-24-2002 (filing date)	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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		Filing Date	December 17, 2003		
		First Named Inventor	ZIPPER, Ellav		
		Group Art Unit	2681		
		Examiner Name	Not yet known		
Sheet	3	of	4	Attorney Docket Number	P-8114-US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
M	AM	FREDRICK H. RAAB, "Efficiency of Outphasing RF Power-Amplifier Systems", IEEE Transactions on Communications. Vol. Com-33, No. 10, Oct 1985, pp. 1094-1099	<input type="checkbox"/>
M	AN	STEVE C. CRIPPS, "RF Power Amplifiers for Wireless Communications", 1989, USA, pp. 219-250	<input type="checkbox"/>
M	AO	D.C. Cox, "Linear Amplification with Nonlinear Components", IEEE Transaction on Communications, December 1974, pp.1842-1845.	<input type="checkbox"/>
M	AP	Bob Stengel and William R. Eisenstadt, "LINC Power Amplifier Combiner Method Efficiency Optimization", IEEE Transaction on Vehicular Technology. Vol.49, No. 1, January 2000, pp.229-234	<input type="checkbox"/>
M	AQ	Bob Stengel, "LINC Linear Transmitter Technology Review", Presented at International Microwave Symposium, Boston, MA, June 11, 2000, pp.1-32.	<input type="checkbox"/>
M	AR	S.A. HETZEL et al., "A LINC Transmitter", University of Bristol, IEEE, 1989, pp. 133-137	<input type="checkbox"/>
M	AS	S. O. Ampem-Darko, H.S. Al-Raweshidy, "A Novel Technique for Gain/Phase Error Cancellation in LINC Transmitters", 1999 IEEE, pp. 2034-2038	<input type="checkbox"/>

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		First Named Inventor	ZIPPER, Ellav
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M	AT	T. A. D. Riley and M. A. Copeland, "A simplified continuous phase modulator technique," IEEE Trans. on circuits and systems, VOL. 41, NO. 5, pp. 321-328, May 1994.	<input type="checkbox"/>
M	AU	N. M. Filiol, T. A. D. Riley, C. Platt and M. A. Copeland, "An agile ISM band frequency synthesizer with built-in GMSK data modulation," IEEE Journal of Solid-State Circuits, VOL. 33, NO. 7, pp.998-1008, July 1998.	<input type="checkbox"/>
M	AV	M. H. Perrot, T. L. Tewksbury III, C. G. Sodini, "A 27-mW CMOS Fractional-N Synthesizer Using Digital Compensation for 2.5-Mb/s GFSK Modulation", IEEE Journal of Solid-State Circuits, VOL. 32, NO. 12, pp.2048-2060, Dec 1997.	<input type="checkbox"/>
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Examiner Signature		Date Considered	67/48/0C
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R	H	J. Nieznanski, "Performance characterization of vector sigma-delta modulation", IECON '98, Proceedings of the 24th Annual Conference of the IEEE, vol. 1, pp. 531-536, 1998	<input type="checkbox"/>
	I	D.L. Neuhoff, "Polar quantization revisited", IEEE International Symposium on Information Theory, 1997 Proceedings, pp. 60, 1997	<input type="checkbox"/>
	J	N.O. Sokal, "RF Power Amplifiers, Classes A through S - How they operate, and when to use each", Electronics Industries Forum of New England, Professional Program Proceedings, pp. 179-183, 1997	<input type="checkbox"/>
	K	T. Yamaji, A. Yasuda, H. Tanimoto, Y. Suzuki, "A Digital-to-RF Converter Architecture Suitable for a Digital-to-RF Direct-Conversion Software Defined Radio Transmitter", IEICE Trans. Commun., vol. E83-B, No. 6, pp. 1254-1260, June 2000.	<input type="checkbox"/>
	L	MICHAEL H. PERROTT ET AL., "A Modeling Approach for $\Sigma$ - $\Delta$ Fractional-N Frequency Synthesizers Allowing Straightforward Noise Analysis", IEEE Journal of Solid-State Circuits, Vol. 37, No. 8, August 2002, pp. 1028-1038	<input type="checkbox"/>
	M	ZHANG et al., "Multibit Oversampled Sigma - Delta A/D Converter with Nonuniform Quantisation", ELECTRONICS LETTERS, 14 MARCH 1991, UK, Vol. 27, No. 6, pp. 528-529	<input type="checkbox"/>
R	N	M.H. Perrott, "Techniques for High Data Rate modulation and Low Power Operation of Fractional-N Frequency Synthesizers", PH.D Dissertation, MIT, September 1997, Retrieved from the Internet, URL: <a href="http://www-mtl.mit.edu/perrott/pages/thesis.pdf">http://www-mtl.mit.edu/perrott/pages/thesis.pdf</a> , pp. 1-90	<input type="checkbox"/>
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1

of

**2**

Attorney Docket Number

**P-6114-US**

**Complete If Known**

Application Number

10/736,741

Filing Date

**December 17, 2003**

First Named Inventor

**ZIPPER, Eliav**

Art Unit

2618

**Examiner Name**

**JACKSON, Blane J.**

Attorney Docket Number

**P-6114-US**

## U.S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

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Examiner  
Signature

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Date \_\_\_\_\_

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07/17/00

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		Application Number	10/736,741		
		Filing Date	December 17, 2003		
		First Named Inventor	ZIPPER, Ellav		
		Art Unit	2618		
		Examiner Name	JACKSON, Blane J.		
Sheet	2	of	2	Attorney Docket Number	P-6114-US

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (where appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PL	E	BEATRIZ BOTERO, Nourredine HIFDI, "Parallelism exploitation in SAR data compression methods", EUSAR 2000, Munich, Allemagne, 23-25 May 2000	<input type="checkbox"/>
PL	F	PERIC et al., "Design of Signal Constellations for Gaussian Channel by Using Iterative Polar Quantization", Electrotechnical Conference, 1998 MELECON 98., 9th Mediterranean, Volume 2, 18-20 May 1998 pp. 868-869 vol. 2 Digital Object Identifier 10.1109/MELCON.1998.699649	<input type="checkbox"/>
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